

Date: Sun, 6 Nov 94 04:30:30 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: List
Subject: Ham-Homebrew Digest V94 #327
To: Ham-Homebrew

Ham-Homebrew Digest Sun, 6 Nov 94 Volume 94 : Issue 327

Today's Topics:

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Hi-Z earphones
Local TV Jammer
Need Info.Memory Batt Backup
PCB Board from laser print??
RF Switching without relays ?
 selecting IF
Sherwood (Drake mods) still available?
 SW converter help?
Where can I find a grid dip meter?

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 5 Nov 1994 12:36:32 GMT
From: oddjob@cix.compulink.co.uk ("Stephen Walters")
Subject: Communications Quarterly

Do you have their FAX number or better still, their E-mail address?

oddjob@cix.compulink.co.uk

Date: 6 Nov 94 04:02:18 GMT
From: gull@grex.cyberspace.ORG (David Brodbeck)
Subject: Hi-Z earphones

>Does anyone know of a good source for inexpensive high impedance earphones?
>I need about 20 of them for the radio club at the local elementary school.
>I'm going to have them build one of these radios as a first project.

A crystal earphone will work quite well, if you can find one.

/--'-- -_ | | | | | David Brodbeck Alma, MI
| (| | | | | | Amateur Packet(AX.25): N8SRE@wb4vva.#nemi.mi.usa.na
| _, | _, _ | | | +-----
|__/_ @ grex.cyberspace.org

Date: 5 Nov 1994 13:37:32 GMT
From: moritz@ipers1.e-technik.uni-stuttgart.de ()
Subject: Local TV Jammer

>Anyone have any ideas on how to build a jammer (or modify existing equipment)
Wrong Newsgroup, try rec.radio.pirate

Date: 5 Nov 1994 09:29:35 -0800
From: teixeira@ccnet.com (TEIXEIRA)
Subject: Need Info.Memory Batt Backup

I have a ICOM IC25-A that I use mainly in the shack on a power supply.
When I turn off the power supply, the memories go away. Does anyone have
any Ideas on adding a battery backup just to support the memories? I was
thinking of adding a nicad.

Tnx-Don Teixeira N6FNL
Fremont, CA

Date: Sun, 6 Nov 1994 02:06:35 GMT
From: mzenier@netcom.com (Mark Zenier)
Subject: PCB Board from laser print??

Sean Norris (snorris@harp.aix.calpoly.edu) wrote:
: I'm working on a project that requires me to make a PC board and I want
: it to be as hassle free as possible. I have seen many ads about some
: special paper which you can print with a laser printer, iron it onto the

: PC board, peel it off and then etch. Has anyone used this technique? If
: so, is it reliable? My project is all surface mount and at very high
: frequencies so the traces must be small and sharp.

This was the subject of a posting in sci.electronics last week.
The subject was "Re: Press n Peel". This same information is
on the World Wide Web at <http://alpha.med.pitt.edu:9000> under
the "... Sci.electronics Faq..." item, under the Questions and
Answers, in "Where can I get supplies for home PCB manufacture"

Thanks to Filip G.

Mark Zenier mzenier@netcom.com mzenier@eskimo.com

Date: 5 Nov 1994 17:26:19 GMT
From: nick@vlsi.polymtl.ca (Nick Ciarallo)
Subject: RF Switching without relays ?

In article <4NOV199422283505@vax2.concordia.ca> drobert@vax2.concordia.ca (Denis Robert, ve2ilf) writes:

> I'm looking for schematic(s) of general purpose RF TX/RX switching
>circuits using diodes. I'd like the switching to be powered by the RF signal
>feeding it. I've seen some bits and pieces of this principle but never a
>complete 'generic' schematic that one could use to add to a setup or modify
>equipment.

You have to be more specific. How much power? What frequency? How much isolation?

The circuit will not be "powered" by the RF signal. If you could show me how to do that, it would make PIN diode switches alot easier to design. Basically, what you're talking about is a PIN diode switch. The PIN diodes are arranged in (usually) in a series/shunt configuration between the source (the transmitter) and the load (the antenna) and controlled by a DC voltage that turns the diodes on or off.

When you provide more info, I'll post a PIN diode RF switch.

Nick

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* Nick Ciarallo *
* SR Telecom Inc. telephone: 514-335-2429 ex: 438 *
* Microwave Group facsimile: 514-334-7783 *
* 8150 Trans Canada Hwy internet : nick@vlsi.polymtl.ca *

* St. Laurent, Quebec hamradio : ve2hot@ve2fkb.pq.can.ca *
* Canada H4S-1M5 *

* Accept no substitutes, *REAL* ham radio lives on 220 MHz! *

Date: Fri, 4 Nov 1994 09:51:01 UNDEFINED
From: mikael.landing@teknikum.uu.se
Subject: selecting IF

Does anyone know about a computer program that can calculate and pointout
spurious responses when using a specified IF-freq and RF-freq in heterodyning??

Micke

Date: Fri, 4 Nov 1994 23:42:04 GMT
From: mbutts@netcom.com (Mike Butts)
Subject: Sherwood (Drake mods) still available?

I'd like to upgrade my Drake C-line with some of the
"Sherwood mods", like the audio amp and mixers.
Is Sherwood still in business? If so, please drop
me a line or post with the address and/or phone.

Thanks and 73!

--KC7IT

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Mike Butts, Portland, Oregon mbutts@netcom.com

Date: 6 Nov 94 04:17:37 GMT
From: gull@grex.cyberspace.ORG (David Brodbeck)
Subject: SW converter help?

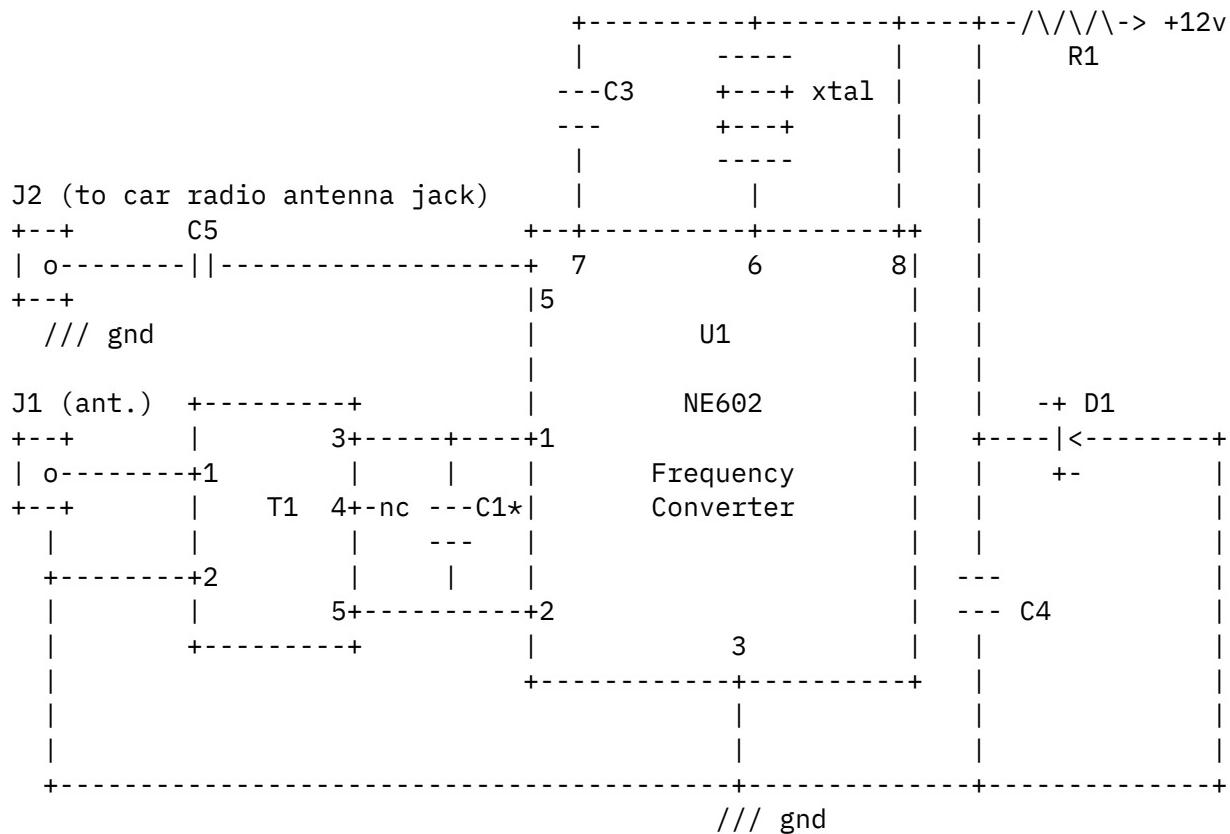
This post is going to be rather long, but I'll try to keep it as short
as possible. I'm trying to build a SW converter (SW -> AM broadcast band)
from information I found on a local BBS. I'm told this circuit originally
came from the October 1989 Popular Electronics magazine. Unfortunately, on
the schematic I have C2 (33 pF) is missing. If anyone can tell me where C2 is
supposed to go I'd appreciate it, as I'd really like to get the sucker to
work. Here's the schematic and parts list:

C1 Optional capacitor. Try 150pF with 5 Mhz crystal, or 47pF with 8 Mhz
 If using crystal >= 10 Mhz omit this capacitor.
 Omit this capacitor if reception is stronger without it.

C2 33 pF
 C3,C5 220 pF
 C4 .047 uF
 D1 Zener diode, either 5.1v or 6.2v (2N4691 or equivalent)
 R1 1K, 1/4 watt resistor
 U1 NE602AN Frequency Converter IC
 T1 10.7 Mhz miniature IF transformer (green plastic screw)
 XTAL 5 Mhz or 8 Mhz crystal, or other values (see text file XTAL.TXT)
 One for each band you like to listen to

Schematic

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| | David Brodbeck Alma, MI
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Date: 5 Nov 1994 01:18:20 GMT
From: tblairm@tu216.tus.ssi1.com (Mark Blair)
Subject: Where can I find a grid dip meter?

In article <39apma\$p3h@cambridge.village.com>,
Al Richer <richer@cambridge.village.com> wrote:
>Can anyone tell me where I can purchase one of hese devices, or better yet,
>can someone point me toward a set of plans for same? I would prefer to build
>it myself, being the cheap swine that I am.....<grin>...

I think the ARRL Handbook for Radio Amateurs has plans for one, or at least it did back in 1987 when mine was printed. Check out teh nearest ham radio dealer. I've seen that book in generic electronics stores, too. Make sure that the current issue still has grid dip meter plans before you buy it, though.

Also, find out if you have any ham swap meets near you; they're often good places to get good deals on old equipment. Like the Racal-Dana 9008 deviation meter that I got for \$100, which a certain large surplus dealer in Texas still sells for \$995.... (The repair manuals cost me \$85 from Racal-Dana, though).

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End of Ham-Homebrew Digest V94 #327
